

SUSPENSION CONTROL SYSTEM AND RELATED DAMPER WITH INTEGRATED LOCAL CONTROLLER AND SENSORS

ABSTRACT OF THE DISCLOSURE

A suspension control system includes a plurality of damper assemblies,
5 each damper assembly including an integrated velocity sensor and an integrated
local controller with a drive unit connected to a damper coil of the damper
assembly. A central controller may be connected for communication with the
integrated local controller of each damper assembly. The local controller of
each damper assembly normally controls the damper assembly independently of
10 the central controller or other damper assemblies for carrying out at least one
control function of the damper assembly. When provided, the central controller
communicates with the local controller of each damper assembly for overriding
local control functions. A related self-contained piston damper unit is also
provided.